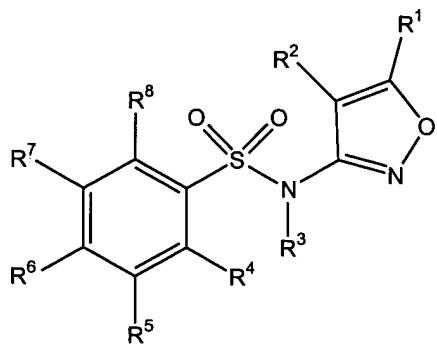


**WHAT IS CLAIMED IS:**

1. A compound having a formula (I):



(I)

- 5 or a pharmaceutically acceptable salt thereof, wherein,  
 each of  $\text{R}^1$  and  $\text{R}^2$  is, independently, H, substituted or unsubstituted  $\text{C}_{1-6}$  alkyl, or  
 substituted or unsubstituted  $\text{C}_{1-6}$  alkoxy, wherein the substituents are selected from the group  
 consisting of hydroxy and halo;
- 10  $\text{R}^3$  is H, formyl, acetyl, or substituted or unsubstituted  $\text{C}_{1-3}$  alkyl, wherein the  
 substituents are selected from the group consisting of hydroxy and halo;
- 15 each of  $\text{R}^4$ - $\text{R}^8$  is, independently, H, halo, substituted or unsubstituted  $\text{C}_{1-12}$  alkyl,  
 substituted or unsubstituted  $\text{C}_{2-12}$  alkenyl, substituted or unsubstituted  $\text{C}_{2-12}$  alkynyl,  
 substituted or unsubstituted  $\text{C}_{1-6}$  alkoxy, substituted or unsubstituted  $\text{C}_{2-12}$  alkenyloxy,  
 substituted or unsubstituted  $\text{C}_{5-10}$  cycloalkenyloxy, substituted or unsubstituted ( $\text{C}_{2-12}$   
 alkynyl)oxy, ( $\text{C}_{1-6}$  alkyl)oxy( $\text{C}_{1-6}$  alkyl), substituted or unsubstituted  $\text{C}_{6-12}$  aryloxy, ( $\text{C}_{3-6}$   
 heteroaryl)-( $\text{C}_{1-6}$  alkyl)oxy, ( $\text{C}_{1-12}$  alkyl)thio, substituted or unsubstituted ( $\text{C}_{1-4}$  alkyl)-thio-( $\text{C}_{1-4}$   
 alkyl), substituted or unsubstituted  $\text{C}_6\text{-C}_{10}$  aryl, substituted or unsubstituted styryl,  
 substituted or unsubstituted  $\text{C}_{3-12}$  heteroaryl, substituted or unsubstituted  $\text{C}_{4-8}$  heterocyclic, -  
 $\text{NH-C(O)-NH-}$ (substituted or unsubstituted heteroaryl), or  $-\text{NR}^{19}\text{R}^{20}$ , wherein each of  $\text{R}^{19}$  and  
 20  $\text{R}^{20}$  is, independently, H,  $\text{C}_{1-12}$  alkyl, or  $\text{C}_{2-12}$  alkenyl, wherein the substituents are selected  
 from the group consisting of hydroxy, halo,  $\text{C}_{1-4}$  alkyl,  $\text{C}_{1-4}$  trihaloalkyl,  $\text{C}_{1-6}$  alkoxy,  $\text{C}_{1-4}$   
 trihaloalkoxy, bivalent oxyalkyloxy, acylamino, acylthio, amino, and azido; or  $\text{R}^5$  and  $\text{R}^6$

form a C<sub>5</sub>-C<sub>10</sub> heteroaryl ring, and each of R<sup>4</sup>, R<sup>7</sup>, and R<sup>8</sup> is, independently, hydroxy, halo, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> trihaloalkyl, C<sub>1-6</sub> alkoxy, or C<sub>1-4</sub> trihaloalkoxy;

provided that at least one of R<sup>4</sup>-R<sup>8</sup> is not H; further provided that when R<sup>1</sup> is alkyl, then R<sup>6</sup> is not butyl; further provided that when R<sup>1</sup> is methyl and R<sup>2</sup> is H, then R<sup>6</sup> is not -  
5 C≡CH, -NHCH<sub>3</sub>, CF<sub>3</sub>, or -CH<sub>2</sub>CH<sub>3</sub>.

2. The compound of claim 1, wherein R<sup>1</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl.

3. The compound of claim 1, wherein R<sup>1</sup> is CH<sub>3</sub>.

10 4. The compound of claim 1, wherein R<sup>4</sup>, R<sup>5</sup>, R<sup>7</sup>, and R<sup>8</sup> are H.

5. The compound of claim 1, wherein R<sup>3</sup> is H.

15 6. The compound of claim 1, wherein R<sup>6</sup> is C<sub>1</sub>-C<sub>10</sub> alkyl.

7. The compound of claim 6, wherein R<sup>6</sup> is cyclopentyl.

8. The compound of claim 6, wherein R<sup>6</sup> is norbornyl.

20 9. The compound of claim 1, wherein R<sup>6</sup> is C<sub>1</sub>-C<sub>10</sub> alkoxy.

10. The compound of claim 1, wherein R<sup>6</sup> is substituted or unsubstituted C<sub>6</sub>-C<sub>10</sub> aryl.

25 11. The compound of claim 1, wherein R<sup>6</sup> is substituted or unsubstituted C<sub>2</sub>-C<sub>12</sub> alkenyl.

30 12. The compound of claim 1, wherein each of R<sup>4</sup>-R<sup>8</sup> is, independently, H, halo, substituted or unsubstituted C<sub>1-12</sub> alkyl, substituted or unsubstituted C<sub>2-12</sub> alkenyl, substituted or unsubstituted C<sub>2-12</sub> alkynyl, substituted or unsubstituted C<sub>1-6</sub> alkoxy, substituted or

unsubstituted phenyl, substituted or unsubstituted heteroaryl, or -NH-(C<sub>1-6</sub> alkyl), wherein the substituents are selected from the group consisting of hydroxy, halo, and C<sub>1-4</sub> alkyl.

13. The compound of claim 12, wherein R<sup>4</sup>, R<sup>5</sup>, R<sup>7</sup>, and R<sup>8</sup> are H.

5

14. The compound of claim 12, provided that when R<sup>1</sup> is alkyl, then R<sup>6</sup> is not alkyl.

15. The compound of claim 12, provided that when R<sup>1</sup> is methyl and R<sup>2</sup> is H, then R<sup>6</sup> is not alkyl.

10

16. The compound of claim 12, provided that when R<sup>1</sup> is methyl and R<sup>2</sup> is H, then R<sup>6</sup> is not alkynyl.

15

17. The compound of claim 12, provided that when R<sup>1</sup> is methyl and R<sup>2</sup> is H, then R<sup>6</sup> is not -NH(C<sub>1-C6</sub> alkyl).

18. The compound of claim 12, wherein R<sup>3</sup> is H.

20

19. A pharmaceutical composition comprising a compound of Formula (I) of claim 1 and a pharmaceutically acceptable carrier.

20. The composition of claim 19, wherein the compound is a compound of claim 2.

21. The composition of claim 19, wherein the compound is a compound of claim 4.

22. The composition of claim 19, wherein the compound is a compound of claim 5.

30 23. The composition of claim 19, wherein the compound is a compound of claim 6.

24. The composition of claim 19, wherein the compound is a compound of claim  
9.

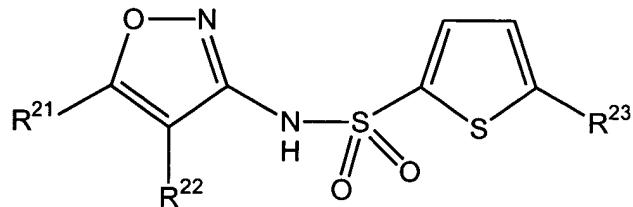
5 25. The composition of claim 19, wherein the compound is a compound of claim  
10.

26. The composition of claim 19, wherein the compound is a compound of claim  
12.

10 27. A method of treating a fungal infection in a subject identified as in need of  
such treatment comprising administering an effective amount of a compound of Formula (I)  
in claim 1 to the subject.

15 28. A method of treating a fungal infection in a subject identified as in need of  
such treatment comprising administering an effective amount of a pharmaceutical  
composition of claim 19 to the subject.

29. A compound having a formula (II):



20 (II)

or a pharmaceutically acceptable salt thereof, wherein  
each of R<sup>21</sup> and R<sup>22</sup> is, independently, substituted or unsubstituted C<sub>1-6</sub> alkyl, or  
substituted or unsubstituted C<sub>1-6</sub> alkoxy, wherein the substituents are selected from the group  
25 consisting of hydroxy and halo;

R<sup>23</sup> is substituted or unsubstituted C<sub>1-6</sub> alkyl, substituted or unsubstituted C<sub>6-12</sub> aryl, substituted or unsubstituted C<sub>3-12</sub> heteroaryl, wherein the substituents are selected from the group consisting of halo, C<sub>1-6</sub> alkyl, and C<sub>1-6</sub> trihaloalkyl.

- 5        30.     The compound of claim 29, wherein R<sup>21</sup> is C<sub>1-C4</sub> alkyl.
31.     The compound of claim 29, wherein R<sup>21</sup> is CH<sub>3</sub>.
- 10      32.     A pharmaceutical composition comprising a compound of Formula (II) of  
claim 29 and a pharmaceutically acceptable carrier.
33.     A method of treating a fungal infection in a subject identified as in need of  
such treatment comprising administering an effective amount of a compound of Formula (II)  
in claim 29 to the subject.
- 15      34.     A method of treating a fungal infection in a subject identified as in need of  
such treatment comprising administering an effective amount of a pharmaceutical  
composition of claim 32 to the subject.
- 20      35.     A method of treating a fungal infection in a subject identified as in need of  
such treatment comprising administering a compound of Formula (I) in claim 1 to the subject  
in combination with a second antimicrobial agent .
- 25      36.     A composition comprising a compound of Formula (I) in claim 1 and a second  
antimicrobial agent.
- 30      37.     A method of treating a fungal infection in a subject identified as in need of  
such treatment comprising administering a compound of Formula (II) in claim 29 to the  
subject in combination with a second antimicrobial agent .

38. A composition comprising a compound of Formula (II) in claim 29 and a second antimicrobial agent.

5 39. A composition according to claim 36 or 38, wherein the second antimicrobial agent is selected from the group consisting of polyenes, candins, sordarins, azoles, allylamines, and morpholines.

10 40. The method according to claim 35 or 37, wherein the second antimicrobial agent is selected from the group consisting of polyenes, candins, sordarins, azoles, allylamines, and morpholines.